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L3	751	2 and (label or labeling) adj2 (system or database or (data adj base))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:02
L4	32	3 and 707/2,3,4,5,6,10.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 07:37
L5	1	4 and ((label or labeling) adj2 (system or database or (data adj base))).ab.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 07:43
L6	3	4 and ((label or labeling) adj2 (system or database or (data adj base))).ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 07:39
L7	27	4 and (label adj2 (system or database or (data adj base)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 07:44
L8	22	7 and (search\$6 or query\$6 or retriev\$6 or extract\$6) near3 label	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:02
L9	2402	(search\$6 or retriev\$6 or extract\$6) adj3 label	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:02
L10	36	9 and label adj2 (system and (database or (data adj base)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:05

L11 6 10 and (translation and languages!) same label	US-PGPUB; OR USPAT; EPO; JPO; DERWENT; IBM TDB	ON	2007/03/08 08:05
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ABSTRACT

We describe a statistical approach for modeling dialogue acts in conversational speech, i.e., speechact-like units such as STATEMENT, QUESTION, BACKCHANNEL, AGREEMENT, DISAGREEMENT, and APOLOGY. Our model detects and predicts dialogue acts based on lexical, collocational, and prosodic cues, as well as on the discourse coherence of the dialogue act sequence. The dialogue model is based on treating the discourse structure of a conversation as a hidden Markov model and the individual dialogue acts as observations emanating from the model states. Constraints on the likely sequence of dialogue acts are modeled via a dialogue act n-gram. The statistical dialogue grammar is combined with word n-grams, decision trees, and neural networks modeling the idiosyncratic lexical and prosodic manifestations of each dialogue act. We develop a probabilistic integration of speech recognition with dialogue modeling, to improve both speech recognition and dialogue act classification accuracy. Models are trained and evaluated using a large hand-labeled database of 1,155 conversations from the Switchboard corpus of spontaneous human-to-human telephone speech. We achieved good dialogue act labeling accuracy (65% based on errorful, automatically recognized words and prosody, and 71% based on word transcripts, compared to a chance baseline accuracy of 35% and human accuracy of 84%) and a small reduction in word recognition error.

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Ng Lydia; Pathak Sayan; Kuan Chihchau; Lau Chris; Dong Hong-wei; Sodt Andrew; Dang Chin Yushkevich Paul; Gee James; Haynor David; Lein Ed; Jones Allan; Hawrylycz Mike; IEEE/ACM Transactions on Computational Biology and Bioinformatics : Accepted for future publica Volume PP, Issue 99, 2007 Page(s):1 - 1 Digital Object Identifier 10.1109/tcbb.2007.1035

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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	19	(translat\$6 near6 label) same (dialog or icon\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:35
L2	. 4	1 and label with database and (retriev\$6 or search\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:30
L3	12	1 and label and database and (retriev\$6 or search\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:32
L4	8	1 and label and database and (retriev\$6 or search\$6) and ((translat\$6 or convert\$6 or transform\$6 or map or mapping or conversion) with (((desired or selected) adj language) or language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:35
L5	2362	(translat\$6 near6 (label or dialog or icon\$6))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:35
L6	184	5 and label and database and (retriev\$6 or search\$6) and ((translat\$6 or convert\$6 or transform\$6 or map or mapping or conversion) with (((desired or selected) adj language) or language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:36
L7	11	6 and (label adj2 database) and ((retriev\$6 or search\$6) with (database or label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:39
L8	10	6 and (label adj2 database) and ((retriev\$6 or search\$6) near3 (database or label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:44
L9	4	8 and label same database same (retriev\$6 or search\$6) same (return\$4 or list\$4 or result or match\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:45

L10	9	8 and (retriev\$6 or search\$6) same (return\$4 or list\$4 or result or match\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:46
L11	5	8 and (retriev\$6 or search\$6) with (return\$4 or list\$4 or result or match\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:46

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	662	((label or term) adj2 database) near9 (search\$6 or retriev\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:14
L2	3239	((label or term) adj2 database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:45
L3	1120	2 and (search\$6 or retriev\$6) near4 (text or label or term)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:41
L4	155	3 and (new adj2 (label or term))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON ·.	2007/03/08 11:40
L5	92	4 and ("707"/\$.ccls. or "717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:41
L6	9	5 and translation adj5 (text or label or term)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:16
L7	268	2 and (new adj2 (label or term))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:40
L8	165	2 and (new adj (label or term))	US-PGPUB; USPAT; EPO; JPO;	OR	ON	2007/03/08 11:47
			DERWENT; IBM_TDB			
L9	99	8 and (search\$6 or retriev\$6) near4 (text or label or term)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:41

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L10	48	9 and ("707"/\$.ccls. or "717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:42
L11	78	8 and (search\$6 or retriev\$6) near4 (text or label or description)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:46
L12	43	11 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:46
L13	2126	((label! or term!) adj2 database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/03/08 11:52
L14	398	13 and (search\$6 or retriev\$6) near4 (text or label! or description)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:46
L15	227	14 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:56
L16	24	15 and new adj (label or term)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON ,	2007/03/08 11:47
L17	43	("20060146790" or "20040260689" or "20040254928" or "20040128272" or "20030167209" or "20030125972" or "20030094494" or "20030115552" or "20030004946" or "6772110" or "6507812" or "6493661" or "6467082" or "6425123" or "6011847" or "5995979" or "200330220912" or "20010002469" or "20030046639" or "20040039989" or "20050038558" or "20020156775" or "20040260689").pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:51
L18	0	17 and (translat\$6 near6 label) same (dialog or icon\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:57

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L19	8	17 and ((label! or term!) adj2 database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:00
L20	20	17 and translat\$6	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 11:53
L21	288	14 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls. or "705"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:05
L22	6	21 and (translat\$6 near6 (label or dialog or icon\$6)) with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/03/08 12:00
L23	0	21 and (translat\$6 near6 (dialog or icon\$6)) with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/03/08 12:00
L24 .	227	(translat\$6 near6 (dialog or icon\$6)) with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:00
L25	50	(translat\$6 near6 (icon\$6)) with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:03
L26	. 0	25 and ((label! or term!) adj2 database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:01
L27	. 4	25 and label and database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:01
L28	68	(translat\$6 near6 (icon\$6 or (text near label))) with (language or ((desired or various or desired or selected or foreign) adj2 language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:06

L30	35	28 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls. or "705"/\$.ccls. or "345"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:07
L31	68	(translat\$6 near6 (icon\$6 or (text near label))) with (language or ((desired or various or desired or selected or foreign or master or target or source) adj2 language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:07
L32	35	31 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls. or "705"/\$.ccls. or "345"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:12
L33	68	(translat\$6 near6 (icon\$6 or (text near label))) with (language or ((various or desired or selected or foreign or master or target or source) adj2 language))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:12
L34	. 113	((translat\$6 or convert\$3 or conversion) near9 (icon\$6 or (text near label))) with (((various or desired or selected or foreign or master or target or source) adj2 language) or language)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:11
L35	667	((translat\$6 or convert\$3 or conversion) near9 (icon\$6 or dialog or box or window or (text near label))) with (((various or desired or selected or foreign or master or target or source) adj2 language) or language)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR 	ON	2007/03/08 12:24
L36	224	35 and ("707"/\$.ccls. or "717"/\$.ccls. or "715"/\$.ccls. or "705"/\$.ccls. or "345"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:12
L37	32	36 and ((text near label) or (term! or label!)) same database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:14
L38	6	36 and ((text near label) or (label!)) with database	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:18

L39	65	36 and ((text near label) or (label!))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:18
L40	113	((translat\$6 or convert\$3 or conversion or renam\$3) near9 (icon\$6 or (text near label))) with (((various or desired or selected or foreign or master or target or source) adj2 language) or language)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:26
L41	3	40 and namespace	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 12:25

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L4	214	((label adj database) or (label adj text adj database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/03/08 10:14
L5	127	4 and (search\$6 or retriev\$4) near6 (label or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:14
L6	5	5 and (translat\$6 or convert\$6) with label with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:16
L7	. 3	6 and new adj (record or label)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 08:56
L8	35	5 and ("707"/\$.ccls. or "717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/03/08 09:02
L9	53879	("707"/\$.ccls. or "717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:08
L10	35	9 and ((label! adj database) or (label! adj text adj database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:04
L11	17	10 and (develop\$4 and (retriev\$4 or search\$7)) same (label! or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:04
L12	3	((label adj database) or (label adj text adj database)) with ((search\$6 or retriev\$5) and develop\$6)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:15

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L13	22	((label adj database) or (label adj text adj database)) and (((search\$6 or retriev\$5) and develop\$6) near4 (label or database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:17
L14	10	((label adj database) or (label adj text adj database)) and (((search\$6 or retriev\$5) and develop\$6) near4 label)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:21
L15	64	((label adj database) or (label adj text adj database)) and ((search\$6 or retriev\$5) near4 label!)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:21
L16	16	((label adj database) or (label adj text adj database)) and ((search\$6 or retriev\$5) near4 label!) and (new adj label)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:25
L17	10	((label adj database) or (label adj text adj database)) and ((creat\$6 or establish\$6 or construct\$6 or generat\$6) near3 (new adj label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:26
L18	10	((label adj database) or (label adj text adj database)) and ((creat\$6 or establish\$6 or construct\$6 or generat\$6 or develop\$6) near3 (new adj label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:55
L19	220	((creat\$6 or establish\$6 or construct\$6 or generat\$6 or develop\$6) near3 (new adj label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:11
L20	69	19 and (search\$6 or retriev\$4) near6 (label or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:56
L21	15	20 and ("707"/\$.ccls. or "717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:31
L22.	2	"20050071324".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:31

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L23	2	22 and label	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:32
L24	52	19 and (search\$6 or retriev\$4) near6 (label or (label adj3 database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 09:57
L25	2	5 and ("717"/\$.ccls.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON .	2007/03/08 10:11
L26	8	5 and ((creat\$6 or establish\$6 or construct\$6 or generat\$6 or develop\$6) near3 (new adj label))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:13
L27	515	((label adj2 database) or (label adj text adj database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:14
L28	29	27 and (search\$6 or retriev\$4) near9 (label or database) near9 text	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:26
L29	4	28 and (translat\$6 or convert\$6) with label with language	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:20
L30	1	22 and label with used!	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:18
L31	1	22 and label with used! with how	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:19
L32	4	29 and description	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR · ·	ON	2007/03/08 10:21

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L33	4	29 and (description or (how adj6 used))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:21
L34	3	29 and (description or (how adj6 used)) with (label or field)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:22
L35	128	27 and (description or (how adj6 used)) with (label or field)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:22
L36	3	35 and ((search\$6 or retriev\$4) near9 text near9 match\$6 near9 (label or database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:28
L37	. 6	35 and ((search\$6 or retriev\$4) near9 (text adj10 (label or database)))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/03/08 10:29
L38	838	((label adj3 database) or (label adj text adj database))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:55
L39	38	38 and translat\$6 adj9 label	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:56
L40	45	38 and translat\$6 adj9 (text or label)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:57
L41	13	40 and new adj label	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:58
L42	3	41 and ((search\$6 or retriev\$7) adj8 text) same (label or match\$5 or database)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/03/08 10:59

L43	 40 and ((search\$6 or retriev\$7) adj8	US-PGPUB;	OR	ÖN	2007/03/08 11:00
	text) same (label or match\$5 or	USPAT;			
	database)	EPO; JPO;			
		DERWENT;			
		IBM_TDB			

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